

Commonwealth of Kentucky
Division for Air Quality
EXECUTIVE SUMMARY

FINAL

Conditional Major, Construction / Operating

Permit: F-06-066

Marathon Petroleum Marine Repair Terminal

Catlettsburg, KY 41129

Date: January 31, 2007

Sukhendu K. Majumdar, Reviewer

SOURCE ID: 21-019-00016

SOURCE A.I. #: 35218

ACTIVITY ID: APE20060001

SOURCE DESCRIPTION:

Marathon Petroleum Company LLC operates a Marine Terminal (MRT) in Catlettsburg, KY. The facility submitted a Title V operating permit application in 1998, based on the potential-to-emit (PTE) for volatile organic compounds (VOC) of greater than 100 tons per year. The Title V permit was issued by the Division for Air Quality in December 22, 1999. A permit renewal application was submitted by the facility six months before the expiration of the permit in 2004. After several reviews of the application DAQ suggested to develop a calculation methodology to estimate barge “degassing” emissions during the barge cleaning cycle. Based on the new emission estimation, it was determined that the facility qualifies for the Federally Enforceable State Operating Permit (FESOP). Marathon Petroleum Company LLC submitted a revised application for Marine Repair Terminal at Catlettsburg on October 19, 2006.

The primary function of the Marine Repair Terminal is to clean and repair barges which are used to transport petroleum products in the water ways. On arrival at the MRT, the residual product from barges is transferred into a storage tank and the barge is “degassed” using blowers. Degassing is considered the drying of gasoline and other petrochemical products from the barges. Depending on the prior barge service, vapors from the degassing are either routed to a natural gas fired thermal oxidizer for VOC destruction or to the atmosphere.

The Marathon Petroleum Marine Repair Terminal consists of:

- a) Two natural gas fired boilers to provide hot water to warm wash the barges.
- b) One natural gas fired thermal oxidizer to reduce VOC and HAP emissions.
- c) Two internal floating roof tanks to store and separate oil and water.
- d) Two internal floating roof tanks to store light and/or heavy oil rerun.
- e) Three horizontal tanks used to store Distillate #2.
- f) One horizontal tank to store lube oil.
- g) One Barge Loading Station.
- h) One Barge Cleaning Station.
- i) Waste Water treatment plant.

PUBLIC, AND EPA REVIEW:

On December 9, 2006, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *The Ashland Independent* in Ashland, Kentucky. The public comment period expired 30 days from the date of publication. Draft permit comments were received from the source on January 5, 2007. Minor changes were made to the permit as a result of the comments received, however the Division has concluded that the proposed operation will comply with all air quality regulations and requirements. The permit is now being issued final.